Digital power supply case (S06A) assembly instruction

This case is suitable for RD6006

Date:2019.9.16

Dear users, thank you for purchasing the digital power supply accessory-metal case produced by Hangzhou Ruideng Technology Co., Ltd. In order to let you know more about the full function of this product, get a better experience and avoid misuse. Please read this instruction carefully before assembly. Keep it for future reference.

ATTENTION: Since the assembly process involves voltage that exceeds the human body's safety, non-professionals should not operate, you must do insulation and protective measures during the assembly process, and check the wiring several times for safety, please place the product at a place that children and old people cannot get.

Please use the switch power supply we recommend, and if you use other power source, check if the positions of fixing holes are suitable or not.



CONTENT

1.Notes

● Read this instruction carefully before assembly, if you still have question, please contact us.

Since the assembly process involves voltage that exceeds the human body's safety, non-professionals should not operate, you must do insulation and protective measures during the assembly process, don’t forget to check the wiring several times for safety, and place the product at a place which children and old people can not get.

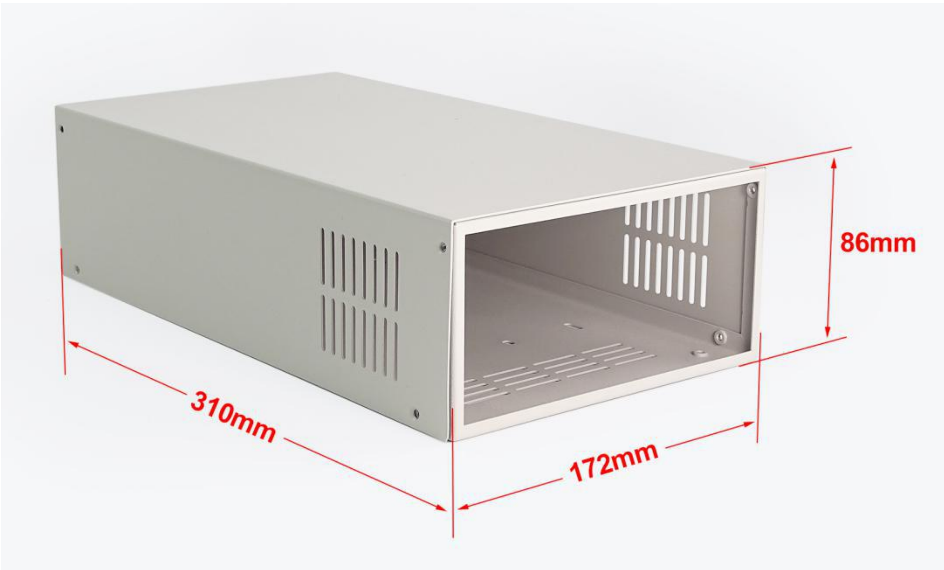
● This case is made of cold-rolled steel plate and the surface is sprayed. When assembling and using, prevent it from scratching by sharp objects, and avoid direct sunlight and humid environment.

● Avoid short circuit when assembling, connect the electrode correctly.

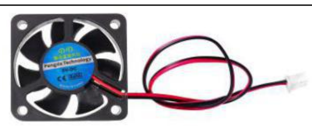
● NEVER connect the cables with the power ON.

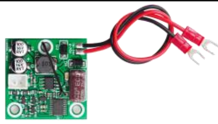
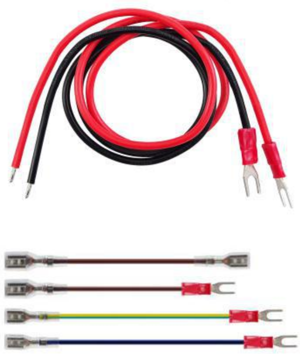
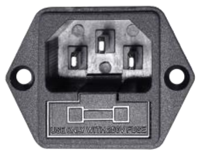
● Try to avoid vibration and fall.

2.Product Dimension

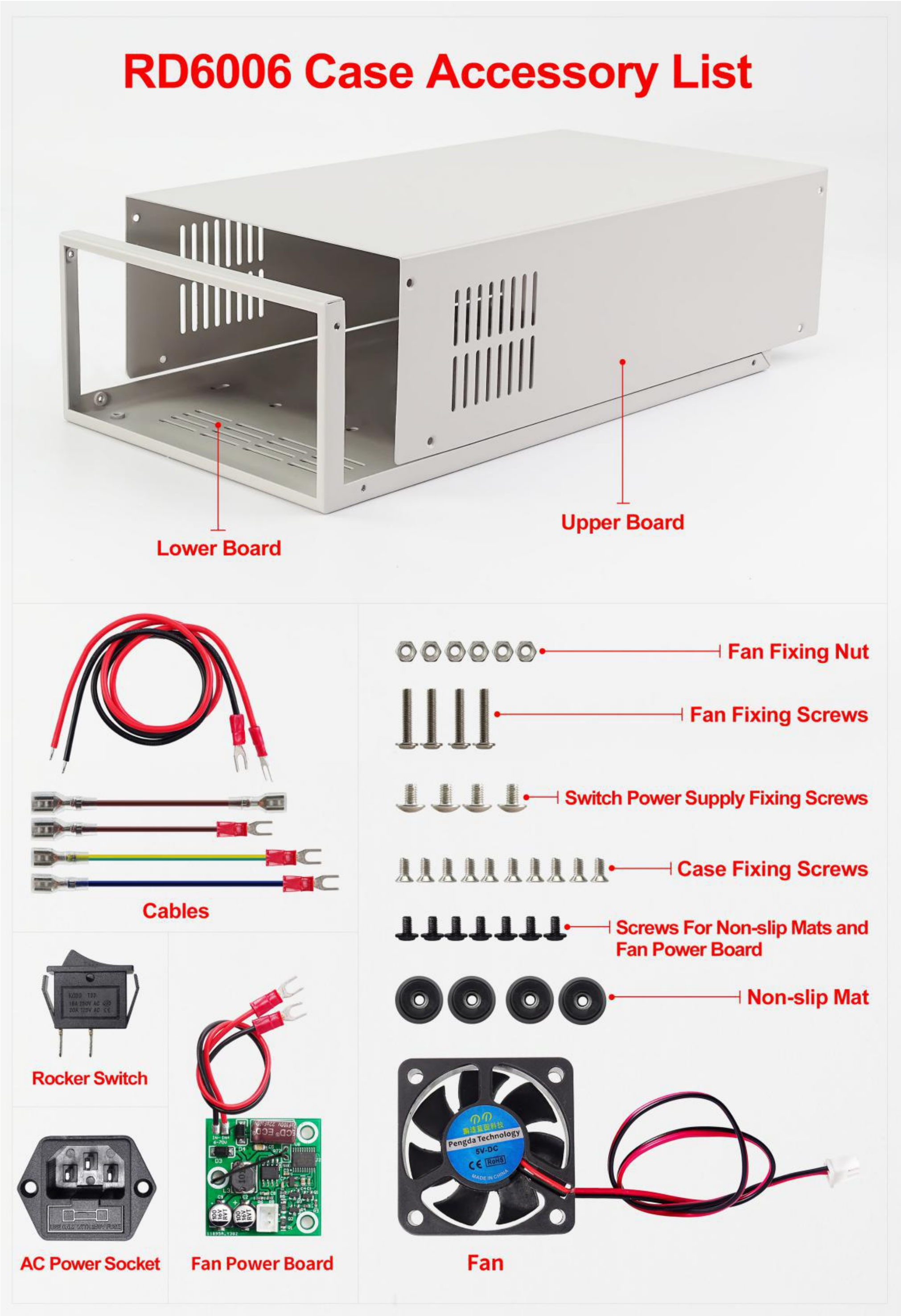


3.Accessory List

NAME	SPECIFICATION	QUANTITY	PICTURE
Upper Board	S06A upper board	1	
Lower Board	S06A lower board	1	
Fan	50mm*15mm	1	

Fan power board	33mm*33mm	1	
Screws for fan power board	M3*5*7	3	
Foot pad fixing screws	M3*5*7	4	
Bolt Nut	Round screw M3*13 M3 nut	6	
Cables	brown：2 yellow-green：1 blue：1 red：1 black：1	6	
Rocker switch	KCD3	1	
AC power socket	AC-03	1	
Non-slip mat	Φ13*4	4	
switch power supply fixing screws	M4*6 flat head	4	
Case fixing screws	M3*6 flat head white	10	

4.Accessory Picture



A: Upper Board	B:Lower Board
C: M3 Nuts	D: M3 Round Screws
E: M4 Flat Head Screws	F: M3 Flat Head White Screws
G: M3 Black Screws	H: Non-slip mat
I: Rocker switch	J: AC power socket
K: Fan power board	L: Fan
M: Cables	

5.Assembly Procedure

5.1 Assembly Preparation

● RD6006 digital power supply*1, S06A case*1, 60V6A switch power supply*1

● Tools, accessory(DC power supply, 3 pin plug cable, multimeter, screw driver, test pencil...)

● Proper assembly environment

It is recommend to use a 400W 60V switch power supply as shown below.





5.2 Assembly step

Note: The case material is a bit soft and may be slightly deformed during transportation. If there is a gap during the assembly, please straighten it before assemble it. If you find the temperature inside the case is high. You can install the fan of the 60V switch power supply in the opposite way, the heat dissipation is better in this way.

①Check the accessories: check if the accessories of S06A are same as accessory list or accessory picture.

②Check RD6006: connect the longest cable to the input interface of RD6006, and then adjust input power supply to 12v/1A to power on RD6006, and set 5V/1A output on RD6006, turn on the output to see if the output is normal or not.

③Back board assembly: install the rocker switch, AC power socket and fan on the lower board.

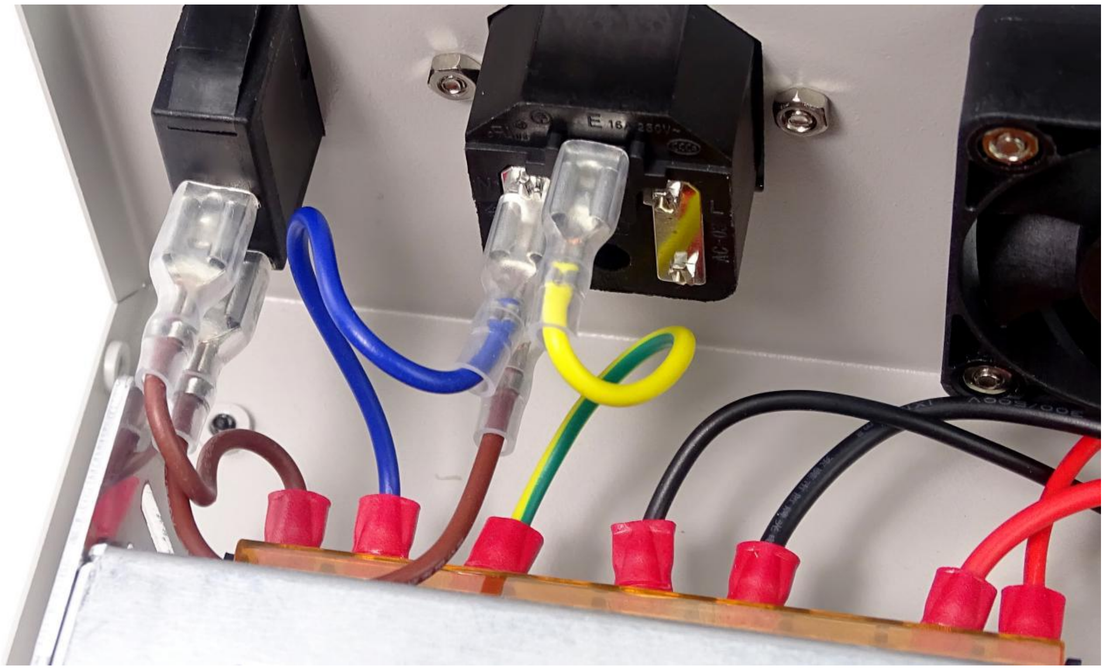


④Install the switch power supply: install the switch power supply on the lower board.



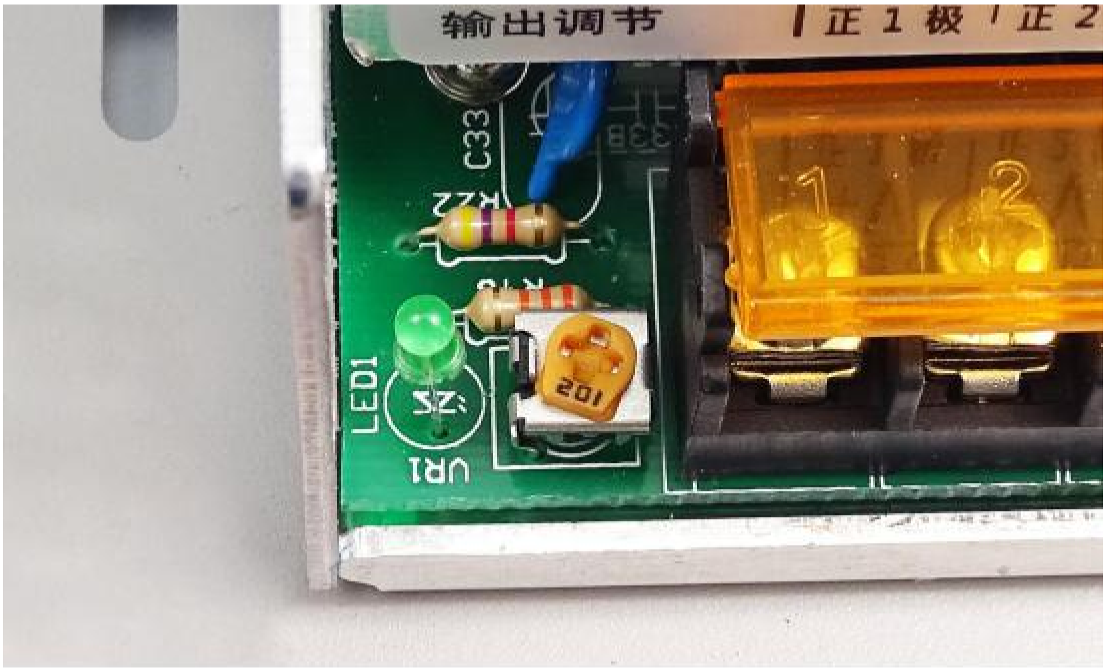
⑤Connect cables to switch power supply: (dangerous, non-professionals should not operate)

Use the brown cable to connect the rocker switch and the live wire (L) of the switch power supply; then use the brown cable to connect the rocker switch and the live wire (L) of the AC power socket; Use the blue cable to connect the neutral wire (N) of AC power socket and the neutral wire (N) of switch power supply; Use a yellow-green two-color cable to connect the ground wire (E) of AC power socket and the ground wire (⏚) of switch power supply.

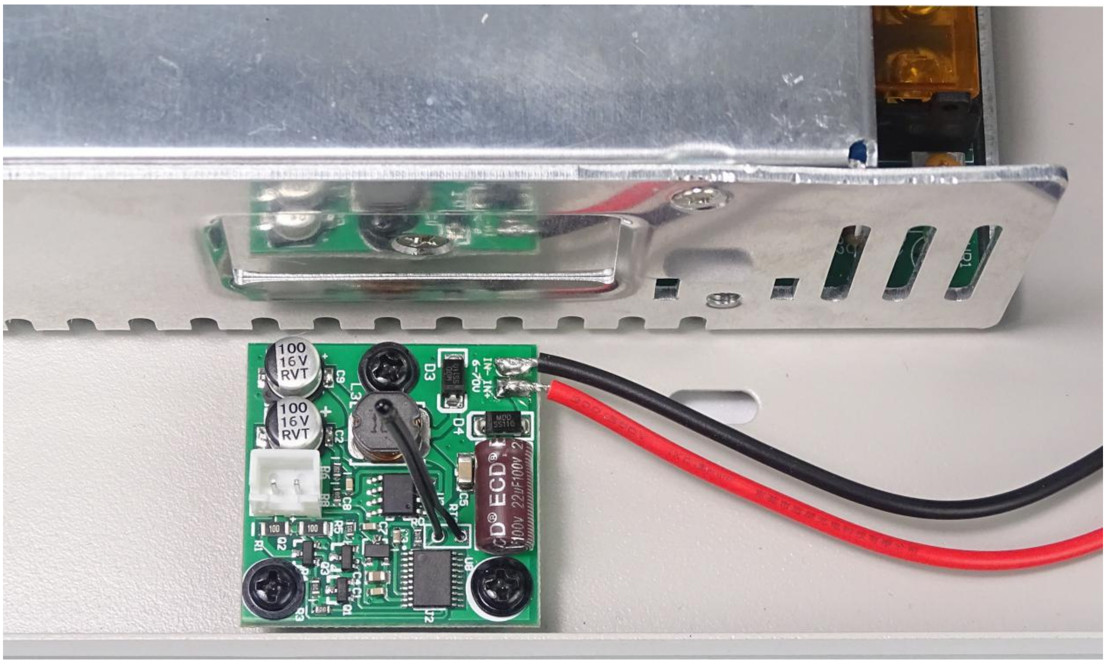


⑥switch power supply test:

check the wring again and power on the switch power supply, and use test pencil to check the power and insulation status. Then use multimeter to check if the 60V output is normal, then use screw driver to adjust the output of the switch power supply to 65V.



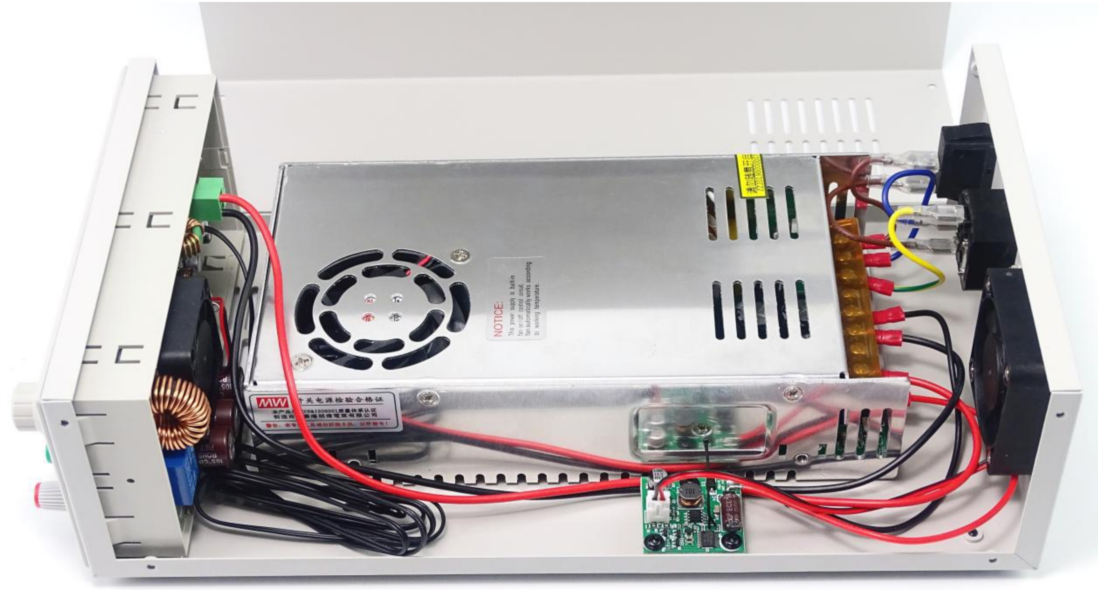
⑦Install the fan power board: install the fan power board to the corresponding position.



⑧Install RD6006: install RD6006 on the front side and connect the external sensor.



⑨Connect the rest cables: connect the input of RD6006 to the output of switch power supply, and connect the input of fan power board to the output of switch power supply, connect the fan cable to fan power board.



⑩Power on and test

Connect power cable and turn on the switch, the fan start to work.

(Note:Temperature-controlled fan, when the RD6006 is powered on below 40℃, it will work for 3 seconds and then stop, and it will run at low speed below 40℃-50℃, run at medium speed below 50℃-60℃, run at full speed when the temperature exceeds 60℃)

⑪Install the screws of the case



⑫Install the foot pads.



⑬Final energization test